NC/PMC/PD/MW-13/2019-20/DG2-C1

1. TEST REPORT ON CEMENT:

Date: 01-04-2019

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	168 min	Shall not be less than 30 min
2	Final setting time	256 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.04 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.92 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.94 N/Sq mm	Shall not be less than 27 N/Sqmm

Page No. 1/1,

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NC/PMC/PD/MW-13/2019-20/DG2-PCC1 Date: 01-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Construction of RCC return Wall and Building to proposed Dobbighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100	85-100	95 – 100
20mm	62.45	0 -20	30- 70
10mm	29.70	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	98.65	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.10	60-95	75-100	85-100	
01.18	61.75	30-70	55-90	75-100	
600. mic	42.20	15-34	35-59	60-79	
300.mic	20.45	5-20	8-30	12-40	
150.mic	7.55	0-10	0-10	0-10	

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NC/PMC/PD/MW-13/2019-20/DG2-C2

1. TEST REPORT ON CEMENT:

Date: 09-04-2019

Sub. Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**175 min**	Shall not be less than 30 min
2	Final setting time	**288min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.69 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.84 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.47 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/PD/MW-13/2019-20/DG2-FA1

Date: 09-04-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.90**	60-95	75-100	85-100	
01.18	**74.55**	30-70	55-90	75-100	
600. mic	**42.05**	15.34	35-59	60-79	
300.mic	**18.70**	5-20	8-30	12-40	
150.mic	**7.60**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**19.10 %**	-----
2	Silt Content	----	**0.68 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/PMC/PD/MW-13/2019-20/DG2-CA1 **Date: 09-04-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	94.80	85-100	90 - 100
10 mm	52.15	0 - 20	25 - 55
4.75 mm	4.40	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.75 %	Not to exceed 25 %
2.	Crushing value	27.20 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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C/PMC/PD/MW-13/2019-20/DG2-CB9

Date: 09-05-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-05-19	09-05-19	07	22500	440	19.56	19.19
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	430	19.11	

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NC/PMC/PD/MW-13/2019-20/DG2-CB10

Date: 10-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-05-19	10-05-19	07	22500	435	19.33	**19.26**
	002	"	"	"	"	440	19.56	
	003	"	"	"	"	425	18.89	

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Ref: PMC/PD/MW-13/2019-20/DG2-CB11

Date: 11-05-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}
Ref: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-05-19	11-05-19	07	22500	440	19.56	**19.63**
	002	"	"	"	"	430	19.11	
	003	"	"	"	"	455	20.22	

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NC/PMC/PD/MW-13/2019-20/DG2-CB1A

Date: 13-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}

Ref: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	001	15-04-19	13-05-19	28	22500	620	27.56	
	002	"	"	"	"	615	27.33	**27.26**
	003	"	"	"	"	605	26.89	

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NEW TECHNOLOGIES TO INNOVATE

/PMC/PD/MW-13/2019-20/DG2-CB11A

Date: 01-06-2019

TEST REPORT ON CEMENT CONCRETE CUBES:

Testing of Concrete Cubes (for 28days Compressive Strength).
(Project*: Construction of RCC return Wall and Building to proposed Dobhighat at Mallasandra in Ward No.13.}
Material testing/PMC/18-19,
Work Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gnanendra Murthy M.D.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
001	04-05-19	01-06-19	28	22500	610	27.11	**27.19**
002	"	"	"	"	625	27.78	
003	"	"	"	"	600	26.67	

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